

WHAT IS CLAIMED IS:

1. An image processing method comprising:

incorporating input frame pictures to be displayed on a display device, on the basis of an input picture signal and an input synchronizing signal which is synchronized with the input picture signal;

recording the incorporated input frame pictures in an input frame memory; and

producing output frame pictures from the input frame pictures, which have been recorded in the input frame memory, by producing an interpolated picture or inserting a black raster picture or thinning out the input frame pictures, between input frame pictures corresponding to a picture information of the input frame picture to be displayed, on the basis of the picture information and the input synchronizing signal and an output synchronizing signal.

2. An image processing method as set forth in claim 1, wherein the production of the output frame pictures comprising:

comparing the refresh rate of the input frame pictures with the refresh rate of the output frame pictures;

outputting the input frame pictures as the output frame picture, or outputting the input frame pictures, between which the black raster picture is inserted, as the output frame pictures, when the refresh rate of the input frame pictures is equal to the refresh rate of the output frame pictures;

producing an interpolated picture between the input frame pictures, or outputting the input frame pictures, between which the black raster picture is inserted, as the output frame pictures, when the refresh rate of the output frame pictures is higher than the refresh rate of the input frame pictures; and

thinning out the input frame pictures, or

comparing the refresh rate of the input frame pictures with the refresh rate of the output frame pictures;

outputting the input frame pictures as the output frame picture, when the refresh rate of the input frame pictures is equal to the refresh rate of the output frame pictures;

stopping the output of signals between the input frame pictures, or inserting and outputting a black raster picture, when the refresh rate of the output frame pictures is higher than the refresh rate of the input frame pictures; and

thinning out the input frame pictures to produce and output the output frame pictures, when the refresh rate of the output frame pictures is lower than the refresh rate of the input frame pictures.

10. An image processing method as set forth in claim 5, wherein the display device is a hold type display device, and when it is discriminated that the picture to be displayed is a moving picture and when it is determined that the moving speed of the moving object in the moving picture is in the second state, the production of the output frame pictures comprises:

comparing the refresh rate of the input frame pictures with the refresh rate of the output frame pictures;

outputting the input frame pictures as the output frame picture, when the refresh rate of the input frame pictures is equal to the refresh rate of the output frame pictures;

stopping the outputs of the output picture signal and the output synchronizing signal between the input frame pictures, when the refresh rate of the output frame pictures is higher than the refresh rate of the input frame pictures; and

thinning out the input frame pictures to produce

15. An image processing system as set forth in claim 14, wherein the picture information is information which indicates whether the picture to be displayed is a moving picture or a still picture, and which further comprises a motion discriminating part discriminating whether the picture to be displayed is a moving picture or a still picture.

16. An image processing system as set forth in claim 15, wherein the motion discriminating part incorporates input frame pictures to be displayed, at regular intervals on the basis of the input picture signal and input synchronizing signal, obtains the correlation between two input frame pictures which have been continuously incorporated, and discriminates whether the input frame picture to be displayed is a moving picture or a still picture on the basis of the correlation result.

17. An image processing system as set forth in claim 15, wherein the motion discriminating part comprises: a switching part incorporating input frame pictures to be displayed, at regular intervals on the basis of the input picture signal and input synchronizing signal; a plurality of frame memories for storing therein the input frame pictures which have been incorporated by the switching part; means for calculating a differential signal between two input frame pictures which have been continuously incorporated; and means for discriminating whether the input frame picture to be displayed is a moving picture or a still picture on the basis of the results of the calculation.

18. An image processing system as set forth in claim 14, wherein the picture signal converting part compares the refresh rate of the input frame pictures with the

